






Hinging device for security enclosure door.

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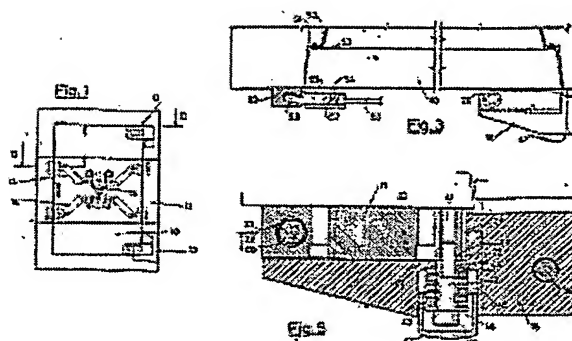
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Abstract of EP0145079

The water-tight door 10 of a safe or strongroom is hung on two double-articulated hinges 12, 13. Each hinge includes an intermediate element 18, 18A connected by a pivot pin 19, 19A to a mounting block 16, 16A on the door frame 11, and also connected by a pivot pin 20, 20A to a second block 17, 17A on the door itself. This articulated connection permits, firstly, swinging of the door about the axis of the pins 19, 19A when it is opened and closed. Secondly when closed the door is clenched inwards against a sealing strip 52 by throwing a series of tapered bolts 54 in so doing the intermediate hinge elements 18, 18A turning slightly relative to the door about the pins 20, 20A. In the upper hinge 12 a compensation spring 40 acts between the intermediate element 18 and the door block 17 so as to keep these parts rotated relative to one another in the direction opposite to the relative rotation performed during clenching. By this means the tendency of the door to twist under its own weight on the double hinges is resisted.



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64 Hinging device for security enclosure door.

57 The water-tight door 10 of a safe or strongroom is hung on two double-articulated hinges 12,13 (Figure 1). Each hinge includes an intermediate element 18,18A connected by a pivot pin 19,19A to a mounting block 16,16A on the door frame 11, and also connected by a pivot pin 20,20A to a second block 17,17A on the door itself. This articulated connection permits, firstly, swinging of the door about the axis of the pins 19,19A when it is opened and closed. Secondly when closed the door is clenched inwards against a sealing strip 52 by throwing a series of tapered bolts 54 (Figure 3), in so doing the intermediate hinge elements 18,18A turning slightly relative to the door about the pins 20,20A. In the upper hinge 12 a compensation spring 40 (Figure 5) acts between the intermediate element 18 and the door block 17 so as to keep these parts rotated relative to one another in the direction opposite to the relative rotation performed during clenching. By this means the tendency of the door to twist under its own weight on the double hinges is resisted.

Fig.1

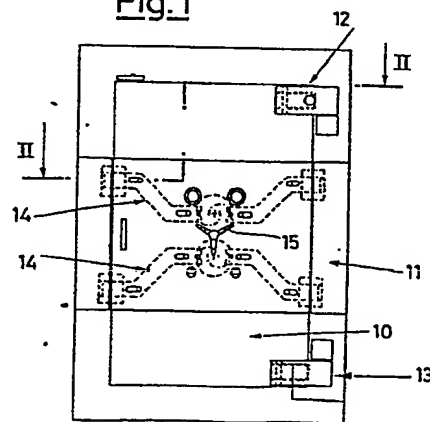
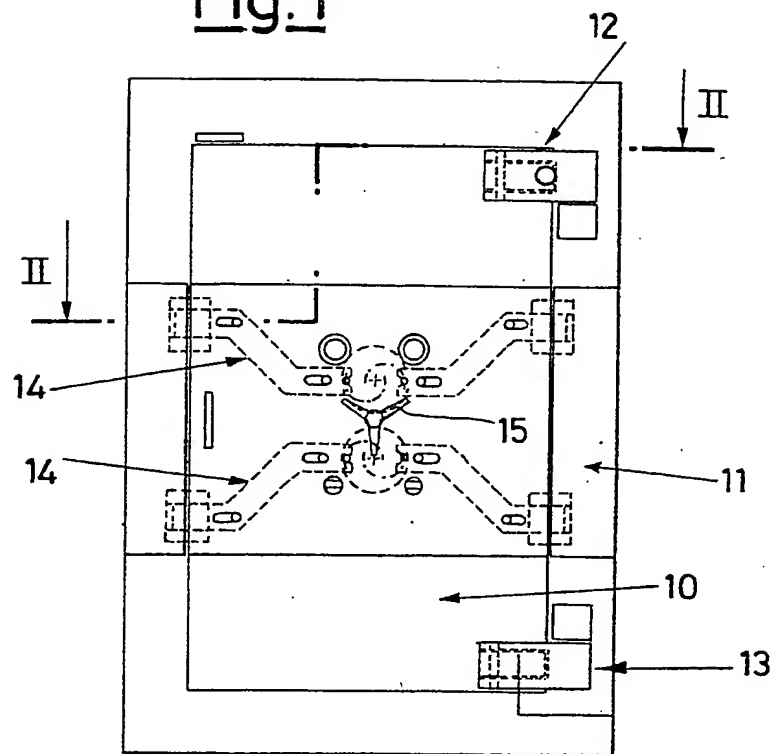
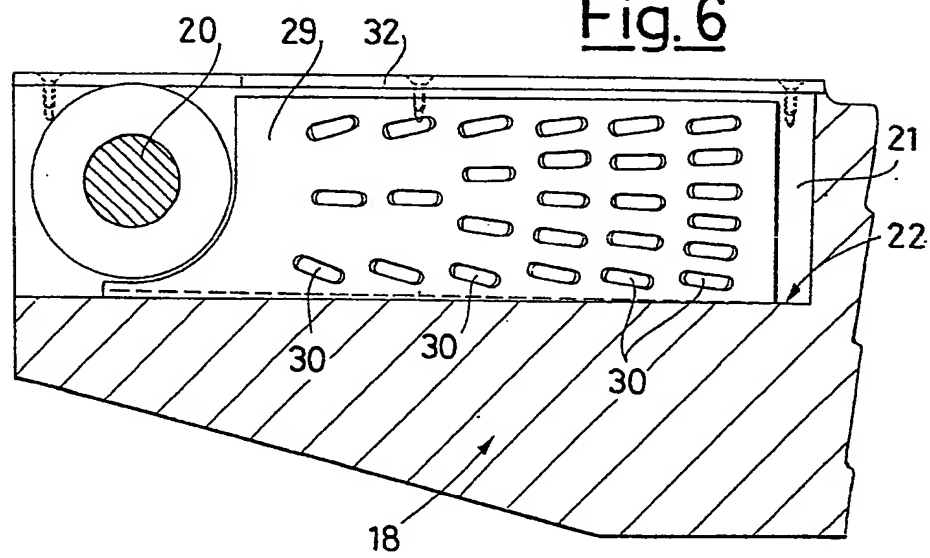
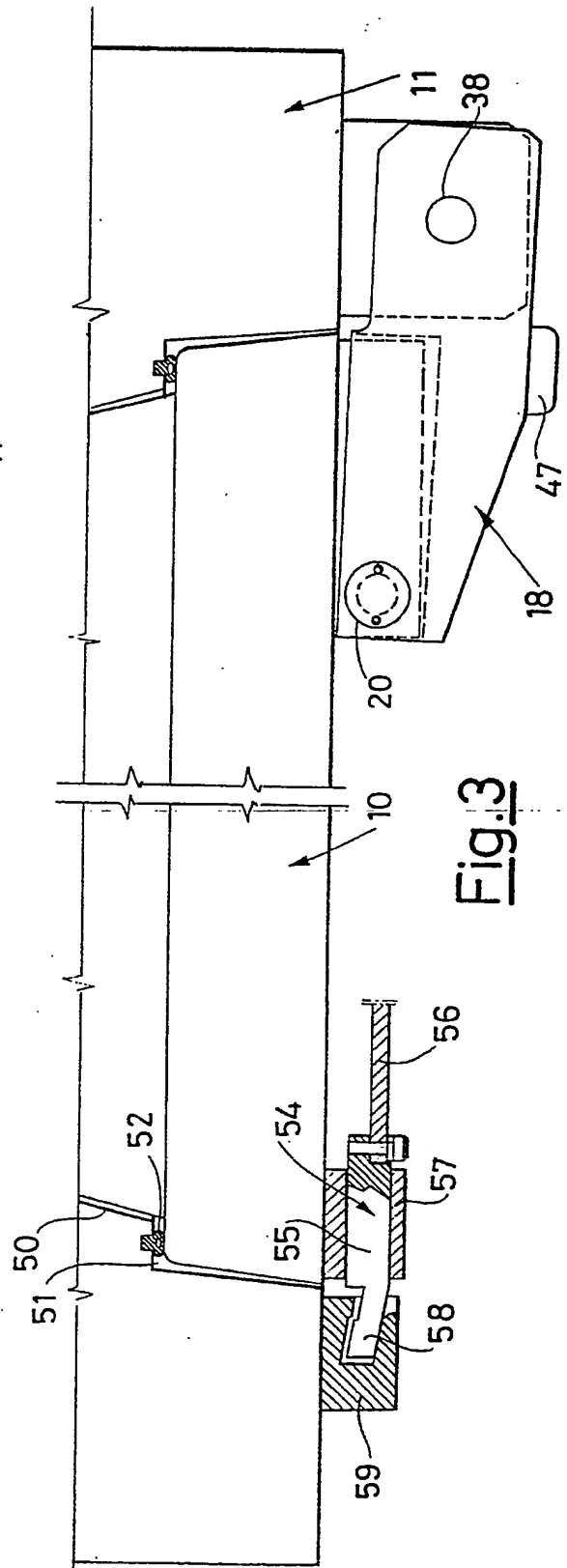
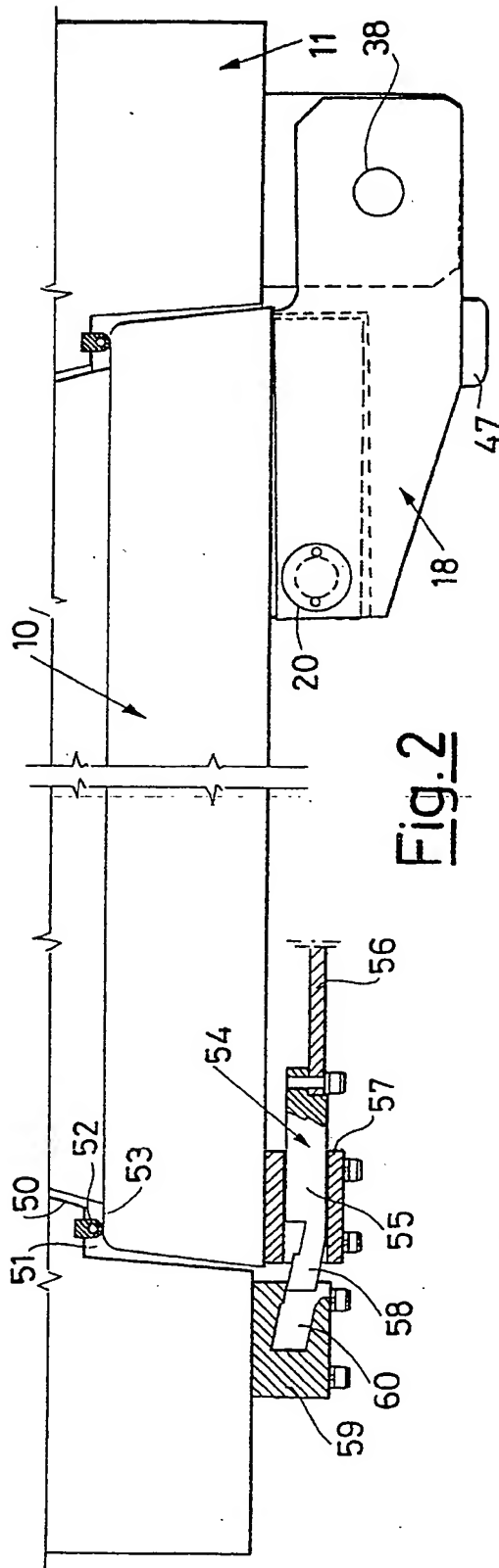


Fig.1Fig.6

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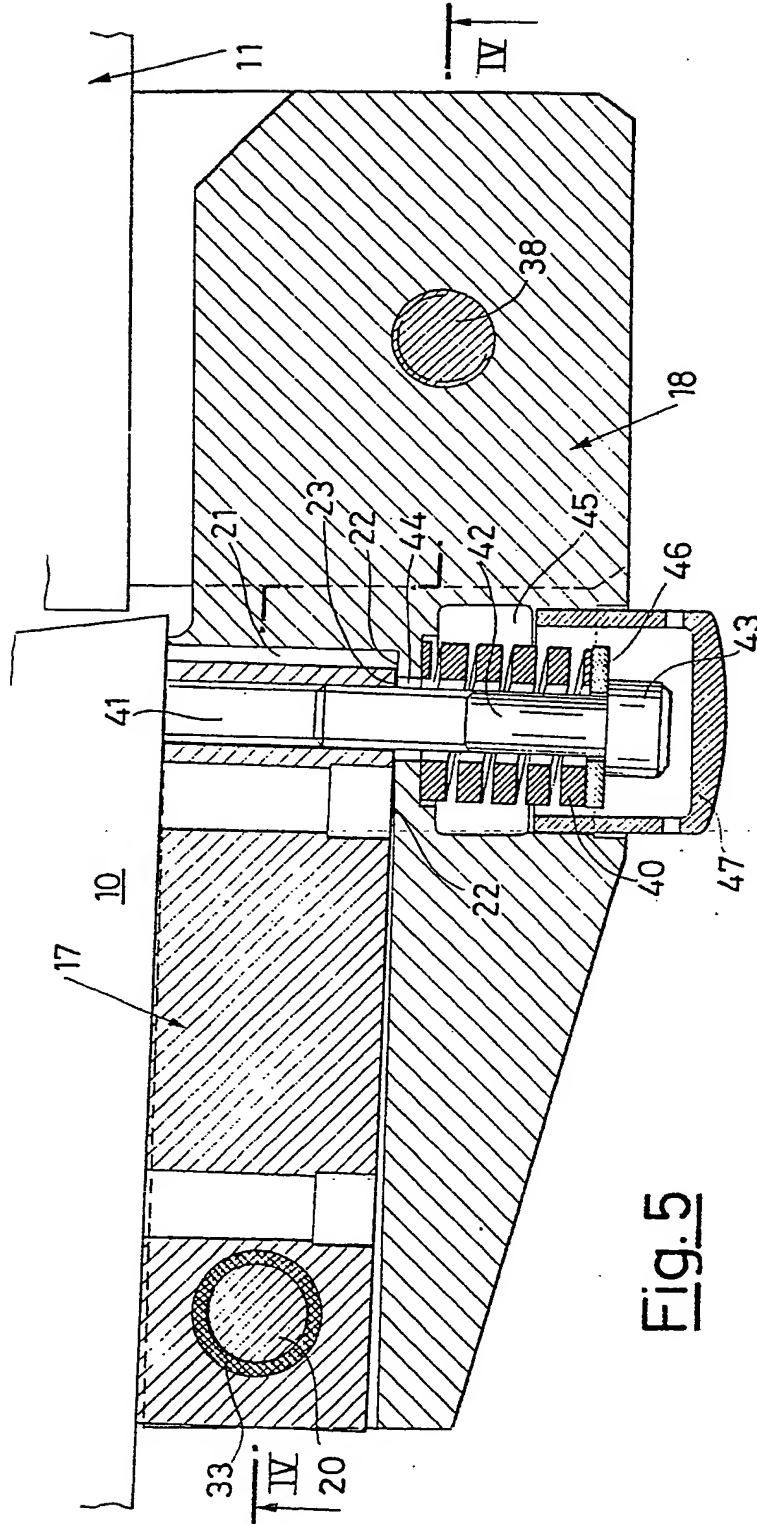


Fig. 5